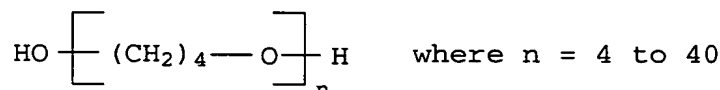


We claim:

1. A crosslinked polyurethane comprising

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- A) at least one polytetrahydrofuran of the formula



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- B) at least one compound which contains more than 2 active hydrogen atoms per molecule

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- C) at least one compound which contains at least 2 active hydrogen atoms per molecule and at least one ionogenic and/or ionic group per molecule, where the groups may be anionogenic, anionic, cationogenic or cationic

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- D) at least one diisocyanate

- E) optionally a compound different from B) and C) which contains at least 2 active hydrogen atoms and has a molecular weight of from 60 to 5000

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or a salt thereof.

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2. A crosslinked polyurethane as claimed in claim 1, where the polytetrahydrofuran A) has a molecular weight of from 200 to 3000, preferably 250 to 2000.

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3. A crosslinked polyurethane as claimed in claim 1, where triols and/or triamines are used as component B).

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4. A crosslinked polyurethane comprising

15 to 50% by weight, in particular 20 to 35% by weight, of A)
0.1 to 5% by weight, in particular 0.2 to 2% by weight, of B)
8 to 20% by weight, in particular 10 to 15% by weight, of C)
25 to 60% by weight, in particular 30 to 50% by weight, of D)
0 to 15% by weight, in particular 0 to 10% by weight of E)

with the proviso that the components add up to 100%.

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5. A crosslinked polyurethane comprising
 - 5 A) polytetrahydrofuran, in particular with a molecular weight of from 200 to 3000, preferably 250 to 2000, particularly preferably from 600 to 1500.
 - B) trimethylolpropane (TMP)
 - C) dimethylolpropanoic acid (DPMA)
 - 10 D) at least one diisocyanate, preferably hexamethylene diisocyanate and/or isophorone diisocyanate.
 - E) optionally neopentyl glycol.
- 15 6. A hair cosmetic composition comprising
 - 0.5 to 20% by weight of a crosslinked polyurethane as claimed in any of the preceding claims
 - 20 - 40 to 99% by weight, preferably 50 to 98% by weight, of at least one solvent chosen from water, water-miscible solvents and mixtures thereof
 - 25 - 0 to 50% by weight of a propellant.
7. The use of the crosslinked polyurethanes as claimed in any of the preceding claims as cosmetic and/or pharmaceutical auxiliaries.
- 30 8. The use as claimed in claim 7 as film formers.
9. The use of the crosslinked polyurethanes as claimed in any of the preceding claims as coatings, coverings and/or binders for solid medicament forms.
- 35 10. The use of the crosslinked polyurethanes as claimed in any of the preceding claims as coatings for the textile, paper, printing, leather and adhesive industries.

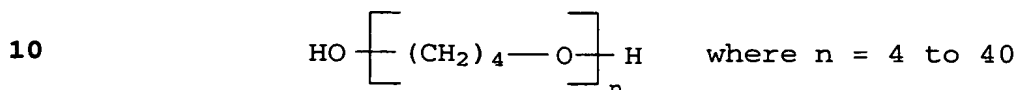
Crosslinked polyurethanes

Abstract

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The invention relates to a crosslinked polyurethane comprising

A) at least one polytetrahydrofuran of the formula



B) at least one compound which contains more than 2 active hydrogen atoms per molecule

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C) at least one compound which contains at least 2 active hydrogen atoms per molecule and at least one ionogenic and/or ionic group per molecule, where the groups may be anionogenic, anionic, cationogenic or cationic

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D) at least one diisocyanate

E) optionally a compound different from B) and C) which contains at least 2 active hydrogen atoms and has a molecular weight of from 60 to 5000

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or the salts thereof.

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